



**582K 08-16 LEGACY™ LINE
WITH AXION™ FAN TECHNOLOGY
SINGLE PACKAGE ROOFTOP
GAS HEAT/ELECTRIC COOLING UNITS**



with **Axion™ Fan** Technology

- **PERFORMANCE DATA**
- **CERTIFIED DIMENSION PRINTS**
- **CERTIFIED ROOF CURB DETAILS**



JOB NAME:	LOCATION:	
BUYER:	BUYER PO #:	BRYANT#:
UNIT NUMBER:	MODEL NUMBER:	
PERFORMANCE DATA CERTIFIED BY:		

DESCRIPTION

582K 08-16 size units are single-packaged electric cooling, gas heating units that are pre-wired and pre-charged with Puron® (R-410A) HFC refrigerant. The units are factory tested in both heating and cooling modes. These units meet the upcoming DOE-2023 (Department of Energy) and ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1 IEER minimum efficiency requirements. Models use Bryant's leading Axion™ Fan Technology indoor fan system with built in speed control and no fan belts or pullies. All models have two-stage cooling and single circuit full active evaporator coil design to provide maximum efficiency and comfort control.

FEATURES

Standard Base Unit

- Puron (R-410A) HFC refrigerant
- Two-stage/one-circuit cooling capacity control on all models
- 2023 DOE, ASHRAE 90.1 and IECC - IEER energy compliant
- Rated in accordance with AHRI Standard 340/360
- Designed in accordance with Underwriters Laboratories standard 60335-2-40
- Listed by ETL and ETL-Canada
- Non-corrosive composite sloping design; side or center drain condensate pan. Meets ASHRAE Standard 62
- Standard cooling operating range from 40°F up to 125°F (except 115°F on 14 size models) (4°C up to 52°C). Field installable accessory extends the minimum down to -20°F (-29°C).
- Field convertible from vertical to horizontal airflow for slab mounting. Size 16 requires field-supplied duct kit.
- Two-inch disposable return air filters
- Thru-the-bottom power and gas entry capability
- Single point gas and electric connections
- 24-volt control circuit protected with resettable circuit breaker and 75-VA transformer
- Direct Drive - Axion™ Fan Technology indoor fan system uses vane axial fan design and electronically commutated motor:
 - Shall have inherent automatic-reset thermal overload protection
 - Shall require no fan/motor belts for operation, adjustments, and/or initial fan speed setup
 - Shall be internally protected from electrical phase reversal and loss
 - Shall have slow ramp up to speed control capabilities to help reduce sound and comfort issues
 - Shall be a slide-out design with simple screw removal
 - Shall not require VFD fan speed control
- Centralized terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement
- New unit control board with intuitive quick fan speed adjustment
- Totally enclosed condenser motors with permanently lubricated bearings
- Low-pressure and high-pressure switches

- Mixed air temperature protection
- Low return air temperature protection switch
- Full perimeter base rail with built-in rigging adapters and fork truck slots
- Central Terminal Board for component and unit wiring connections.
- Access panels with easy grip handles and NO-STRIP screw collars
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Fully insulated cabinet
- Tool-less filter access door

Refrigerant System

- TXV refrigerant metering system
- Liquid line filter drier
- Tandem Scroll compressors with internal line-break overload protection
- Copper tube, aluminum fin evaporator coils
- Round Tube/Plate Fin (RTPF) condenser coils on all model sizes

Gas Heat

- IGC solid-state gas heat exchanger control for on-board diagnostics, anti-cycle protection, LED error code designation, burner control logic and energy saving indoor fan motor delay
- Gas efficiencies up to 82%
- Designed in accordance with ANSI Z21.47 (design and test standard for gas furnaces) and ANSI Z233.1 (National Fuel Gas code relating to appliance installation requirements)
- Induced negative draft combustion system
- Redundant gas valve, with up to 2 stages of heating
- Flame roll-out safety protector
- Solid-state electronic direct spark ignition system

Standard Limited Parts Warranty

- 15-year limited on all gas heat exchanger parts - Stainless Steel
- 10-year limited on all gas heat exchanger parts - Aluminized
- 5-year limited on all compressor parts
- 5-year parts on Factory Installed Ultra Low Leak Economizer
- 1-year limited on all parts

PERFORMANCE DATA

Unit Operating Weight _____ lb

COOLING

Gross Total Capacity _____ Btuh

at Condenser Air Temperature _____ °F

Gross Sensible Capacity _____ Btuh

Compressor Power Input _____ kW

Indoor Entering: db _____ °F / wb _____ °F

Airflow _____ CFM External Static Pressure _____ in. wg

Indoor Fan Motor Size _____ HP

Exhaust Fan Motor Size _____ HP

Curb Weight _____ lb

HEATING (GAS)

Heating Capacity:

Stage 1 _____ Btuh

Stage 2 _____ Btuh

Heating Capacity Total _____ Btuh

Stage 1 _____ kW

Stage 2 _____ kW

Heating Capacity Total _____ kW

ELECTRICAL DATA

Power Supply to Unit _____

Volts _____

Phase _____ Hz

Maximum Circuit Amps _____

Maximum Overcurrent Protection _____

SUBMITTAL DATA

Job Name _____

Architect _____

Engineer _____

Contractor _____

Unit Designation _____



FACTORY-INSTALLED OPTIONS

☐ Economizer with DRY BULB Sensing and Barometric Relief

Low Leak Air Dampers —

- Models with W7220 controller meet California Title 24-2016 (Section 120.2) for Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er X system).

☐ Economizer with ENTHALPY Sensing and Barometric Relief

Low Leak Air Dampers —

- Models with W7220 controller meet California Title 24-2016 (Section 120.2) Fault Detection and Diagnostic (FDD) requirements (EconoMi\$er X system).

☐ Economizer with DRY BULB Sensing and Barometric Relief

ULTRA LOW LEAK Air Dampers —

- Models with W7220 controller meet California Energy Commission Title 24-2016 perspective section 140.4 (damper leakage, etc.), and mandatory section 120.2.i for Fault Detection and Diagnostic controls. Economizers meet ASHRAE 90.1-2016 damper leakage requirements as stated in section 6.5.1.1.4 and Table 6.4.3.4.3, and meet 2016 Fault Detection and Diagnosis requirements in section 6.4.3.12. For outside air, return, and relief air damper leakage requirements economizers meet IECC 2012 section C402.4.5.2 and, IECC 2015 sections C403.2.4.3 and C403.3.3.5 and IECC 2015 section C403.2.4.7 for Fault Detection and

Diagnostic requirements.

NOTE: IECC 2015 section C403.2.4.7.1 requires differential return air sensor, which must be ordered separately.

Outside air, return air, and relief air (volume) dampers are AMCA rated — plus 5 year limited parts warranty (EconoMi\$er X system).

☐ Economizer with ENTHALPY Sensing and Barometric Relief

ULTRA LOW LEAK Air Dampers —

- Models with W7220 controller meet California Energy Commission Title 24-2016 perspective section 140.4 (damper leakage, etc.), and mandatory section 120.2.i for Fault Detection and Diagnostic controls. Economizers meet ASHRAE 90.1-2016 damper leakage requirements as stated in section 6.5.1.1.4 and Table 6.4.3.4.3, and meet 2016 Fault Detection and Diagnosis requirements in section 6.4.3.12. For outside air, return, and relief air damper leakage requirements economizers meet IECC 2012 section C402.4.5.2 and, IECC 2015 sections C403.2.4.3 and C403.3.3.5 and IECC 2015 section C403.2.4.7 for Fault Detection and Diagnostic requirements.

NOTE: IECC 2015 section C403.2.4.7.1 requires differential return air sensor, which must be ordered separately.

Outside air, return air, and relief air (volume) dampers are AMCA rated — plus 5 year limited parts warranty (EconoMi\$er X system).

FACTORY-INSTALLED OPTIONS (CONT)

- ☐ Through the base connectors for gas and electric conduit/piping
- ☐ Stainless steel gas heat exchanger (includes tubes, vestibule plate and collector box)
- ☐ Perfect Humidity™ adaptive dehumidification system
- ☐ Non-fused disconnect
- ☐ Powered 115-volt convenience outlet
- ☐ Non-powered 115-volt convenience outlet
- ☐ High static evaporator fan motor
- ☐ Return Air smoke detector
- ☐ Supply Air smoke detector
- ☐ CO₂ sensor
- ☐ Condenser hail guard-louvered style

- ☐ Special coating protection for evaporator and condenser coils
- ☐ Hinged access doors
- ☐ Condensate overflow switch
- ☐ Phase Monitor/Protection

Optional Warranties

- ☐ Complete unit parts only, up to 5 years
- ☐ Complete unit parts and labor, up to 5 years

Many other optional warranties are available. See the Commercial Start-Up and Optional Extended Warranty Price pages for further information.

FIELD-INSTALLED ACCESSORIES

☐ Economizer with DRY BULB Sensing and Barometric Relief

Standard Leak Air Dampers —

- Models with W7212 controller provide standard non-diagnostic control. EconoMiSer® IV.
- Models with W7220 controller meet California Title 24-2016 Section 120.2.i for Fault Detection and Diagnostic (FDD) requirements. EconoMiSer X.

☐ Economizer with ENTHALPY Sensing and Barometric Relief

Standard Leak Air Dampers —

- Models with W7212 controller provide standard non-diagnostic control. EconoMiSer IV.
- Models with W7220 controller meet California Title 24-2016 Section 120.2.i Fault Detection and Diagnostic (FDD) requirements. EconoMiSer X.

☐ Economizer with DRY BULB Sensing and Barometric Relief

ULTRA LOW LEAK Air Dampers —

- Models with W7220 controller meet California Energy Commission Title 24-2016 perspective section 140.4 (damper leakage, etc.), and mandatory section 120.2.i for Fault Detection and Diagnostic controls. Economizers meet ASHRAE 90.1-2016 damper leakage requirements as stated in section 6.5.1.1.4 and Table 6.4.3.4.3, and meet 2016 Fault Detection and Diagnosis requirements in section 6.4.3.12. For outside air, return, and relief air damper leakage requirements economizers meet IECC 2012

section C402.4.5.2 and, IECC 2015 sections C403.2.4.3 and C403.3.3.5 and IECC 2015 section C403.2.4.7 for Fault Detection and Diagnostic requirements.

NOTE: IECC 2015 section C403.2.4.7.1 requires differential return air sensor, which must be ordered separately.

Outside air, return air, and relief air (volume) dampers are AMCA rated.

☐ Economizer with ENTHALPY Sensing and Barometric Relief

ULTRA LOW LEAK Air Dampers —

- Models with W7220 controller meet California Energy Commission Title 24-2016 perspective section 140.4 (damper leakage, etc.), and mandatory section 120.2.i for Fault Detection and Diagnostic controls. Economizers meet ASHRAE 90.1-2016 damper leakage requirements as stated in section 6.5.1.1.4 and Table 6.4.3.4.3, and meet 2016 Fault Detection and Diagnosis requirements in section 6.4.3.12. For outside air, return, and relief air damper leakage requirements economizers meet IECC 2012 section C402.4.5.2 and, IECC 2015 sections C403.2.4.3 and C403.3.3.5 and IECC 2015 section C403.2.4.7 for Fault Detection and Diagnostic requirements.

NOTE: IECC 2015 section C403.2.4.7.1 requires differential return air sensor, which must be ordered separately.

Outside air, return air, and relief air (volume) dampers are AMCA rated.

FIELD-INSTALLED ACCESSORIES (CONT)

- ☐ Prop fan power exhaust
- ☐ Two-position motorized outdoor air damper
- ☐ Manual outside air damper 25%
- ☐ Manual outside air damper 50%
- ☐ Roof Curb — 14 inch (356 mm) tall
- ☐ Roof Curb — 24 inch (610 mm) tall
- ☐ Thru-the-bottom connections (electrical only)
- ☐ Thru-the-bottom connections (electrical and gas)
- ☐ Condenser hail guard (louvered style)
- ☐ Flue shield
- ☐ Flue discharge deflector
- ☐ Liquid propane (LP) conversion kit
- ☐ High altitude conversion kit
- ☐ Winter start kit, down to 25°F (−4°C)
- ☐ Phase monitor (loss of phase/phase reversal)
- ☐ Low ambient head pressure controller, down to 0°F (−18°C)
- ☐ UVC high output lights
- ☐ MERV-8 filter kits
- ☐ MERV-13 filter kits

- ☐ 4 in. filter racks
- ☐ Time Guard II compressor anti-cycle protection
- ☐ Thermostats and Sensors
- ☐ Condensate overflow switch
- ☐ Non-powered 115-volt (20 amp) convenience outlet
- ☐ Side access hinged filter door kit
- ☐ Horn/strobe annunciator

Size 16 Only

- ☐ Disconnect switch bracket
- ☐ Supply duct cover

Economizer Sensors

- ☐ Single Dry bulb control
- ☐ Differential Dry bulb control
- ☐ Single enthalpy control
- ☐ Differential enthalpy control
- ☐ CO₂ — wall mounted
- ☐ CO₂ — duct mounted
- ☐ CO₂ — unit mounted

CERTIFIED DIMENSION PRINT

NOTES:

1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.

2. CENTER OF GRAVITY

3. DIRECTION OF AIR FLOW

4. ALL VIEW DRAWN USING 3RD ANGLE

UNIT	OUTDOOR COIL TYPE	J	K	H
582K-08	RTPF	21-1/4 [544]	33-3/4 [859]	15-7/8 [399]
582K-09	RTPF	21-1/4 [544]	33-3/4 [859]	15-7/8 [399]
582K-12	RTPF	21-1/4 [544]	33-3/4 [859]	15-7/8 [399]

RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)



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CONNECTION SIZES

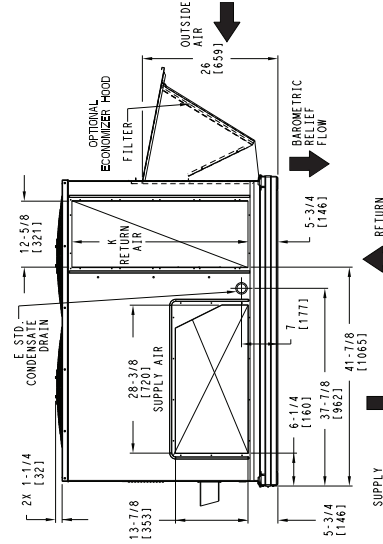
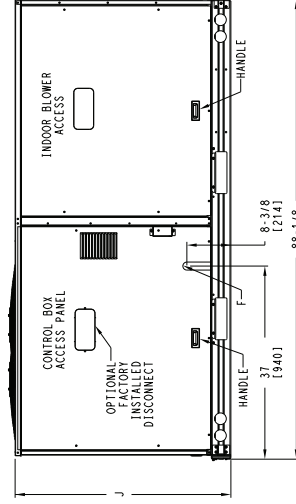
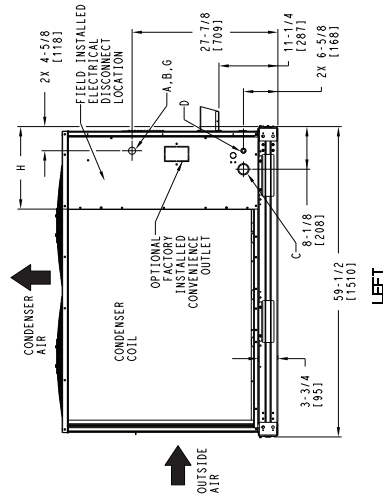
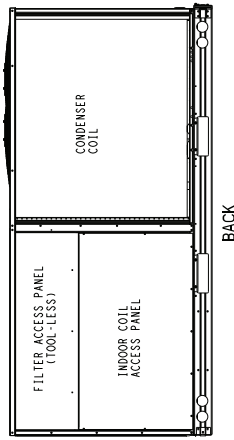
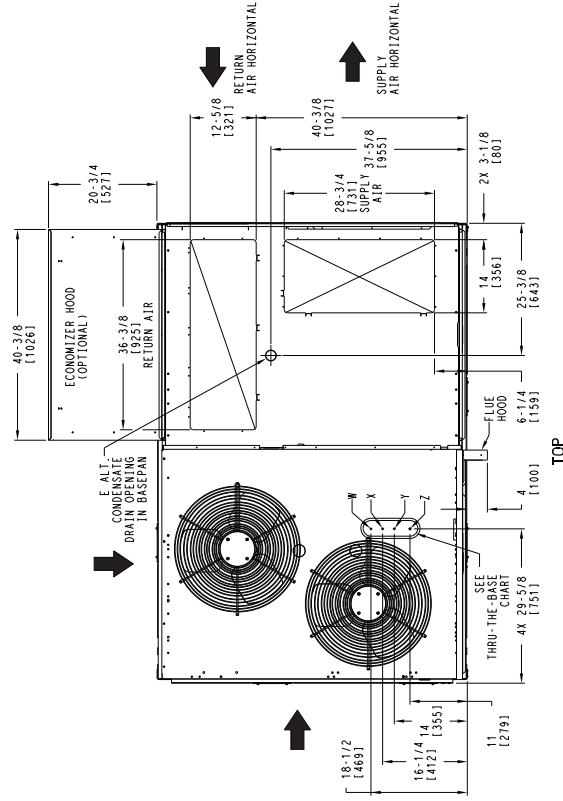
A	1 3/8" [35]	DIA FIELD POWER SUPPLY HOLE
B	2 1/2" [64]	DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [51]	DIA GAUGE ACCESS PLUG
D	7/8" [22]	DIA FIELD CONTROL WIRING HOLE
E	3/4" - 1/4 NPT	GAS CONNECTION
F	1/2" - 1/4 NPT	GAS CONNECTION
G	2" [51]	DIA POWER SUPPLY KNOCK-OUT

THRU-THE-BASE CHART (FIELD INST)
THESE HOLES REQUIRED FOR USE WITH ACCT KIT:
CRB100002401: GAS THRU CURB
CRB100002401: GAS THRU BASEPAN

THREADED CONDUIT SIZE	WIRE USE SIZES (MAX.)
W 1/2"	ACQ 7/8" [22.2]
X 1/2"	24V 7/8" [22.2]
Y 1 1/4"	POWER 1 3/4" [44.4]
Z 1"	GAS 1 3/4" [44.4]
	(002) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING. HOLE SIZE: 2" [50.8]

THRU-THE-BASE CHART (F10P)

FOR "THRU-THE-BASE" FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED. ** FOR BELOW LISTED MODELS: A FIELD DISCONNECT IS REQUIRED BETWEEN BASE PAN FITTING AND GAS VALVE: 582K-08, 582K-09



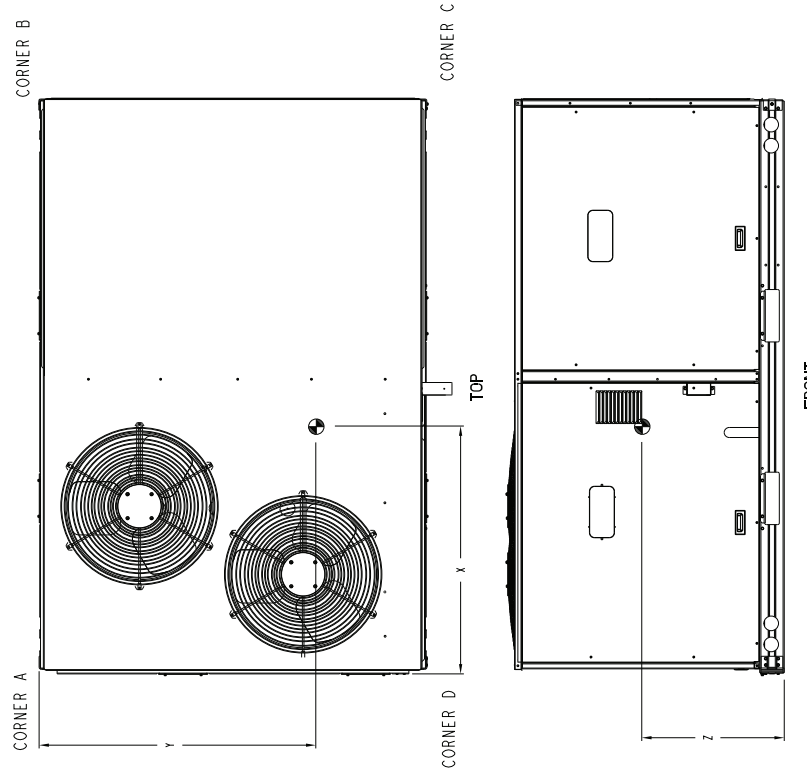
ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	REV
U.S. ECCN-NSR	1 OF 3	06/01/21	582K 08-12 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	48TM006403

Fig. 1 — 582K** 08-12 Unit Dimensional Drawing

CERTIFIED DIMENSION PRINT

UNIT	OUTDOOR COIL TYPE	STD. UNIT		CORNER		CORNER		CORNER		C. G.				
		LB/SG.	WT.	LB/SG.	WT. (A)	LB/SG.	WT. (B)	LB/SG.	WT. (C)	X	Y	Z		
582K-08	R1P6	787	357	81	150	68	97	249	113	40	1016	34	172	1492
582K-09	R1P6	868	384	197	89	163	73	229	104	282	128	39	172	1473
582K-12	R1P6	818	380	213	97	175	80	221	100	268	121	39	178	1484
R1P6 - ROUND TUBE, PLATE FIN (COPPER/ALUM)														

*** STANDARD UNIT WEIGHT IS WITH LOW GAS HEAT AND WITHOUT PACKAGING. FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



NOTE:

1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

		CLEARANCE				
		SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER	OPERATING CLEARANCE		
SURFACE	FRONT	48 [121.9mm]	36 [91.4mm]	18 [4.57mm]		
	LEFT	48 [121.9mm]	42 [106.7mm]	18 [4.57mm]		
	BACK W/O ECON	48 [121.9mm]	42 [106.7mm]	18 [4.57mm]		
	BACK W/ECON	36 [91.4mm]	36 [91.4mm]	18 [4.57mm]		
TOP	RIGHT	36 [91.4mm]	36 [91.4mm]	18 [4.57mm]		
		72 [182.9mm]	72 [182.9mm]	72 [182.9mm]		
SUPERDEDS		582K 08-12 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT		481M0065403		REV A

ITC CLASSIFICATION	SHEET	DATE
U.S. FCCN: NSR	2 OF 3	06/01/21

Fig. 1 — 582K 08-12 Unit Dimensional Drawing (cont)**

CERTIFIED DIMENSION PRINT

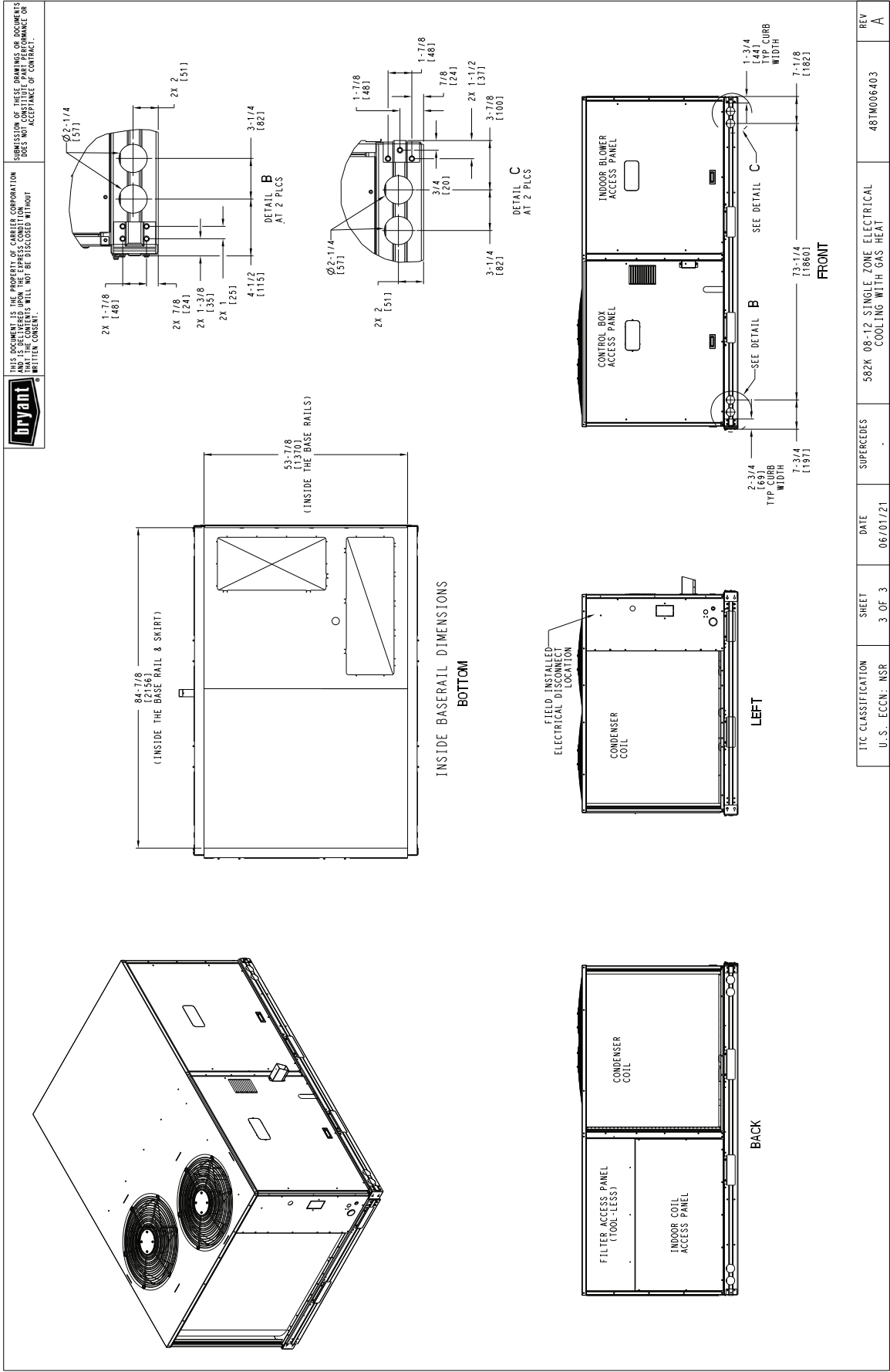


Fig. 1 — 582K** 08-12 Unit Dimensional Drawing (cont)

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDS	582K 08-12 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT	REV
U.S. ECCN: NSR	3 OF 3	06/01/21		481M006403	A

CERTIFIED DIMENSION PRINT

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NOTES:

- DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.
- CENTER OF GRAVITY
- DIRECTION OF AIR FLOW
- ALL VIEW DRAWN USING 3RD ANGLE

UNIT	OUTDOOR COIL TYPE	H
582K-14	RTPF	15 7/8 [403]

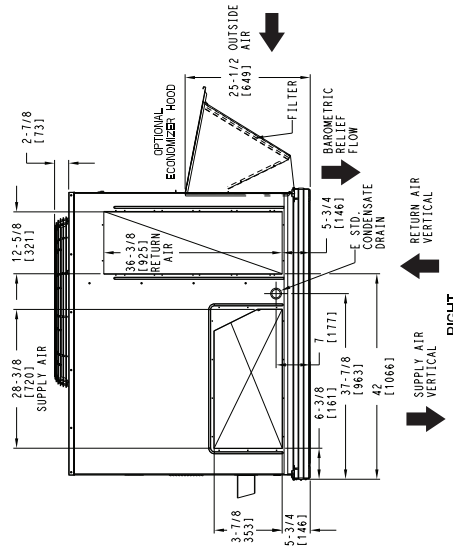
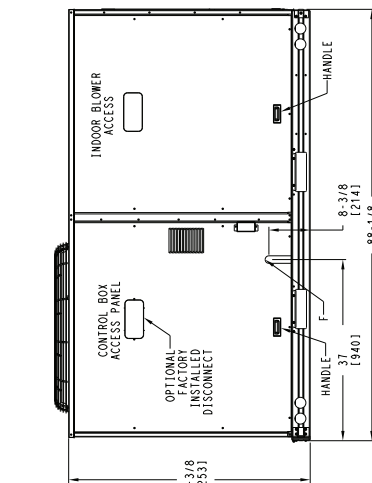
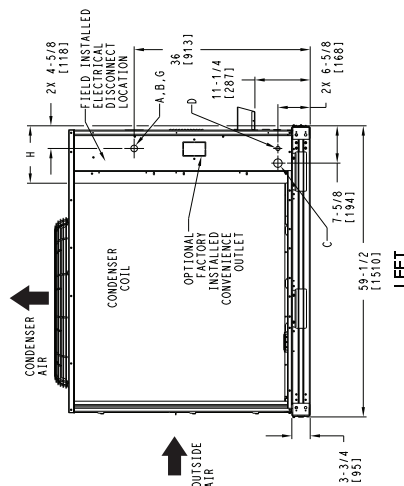
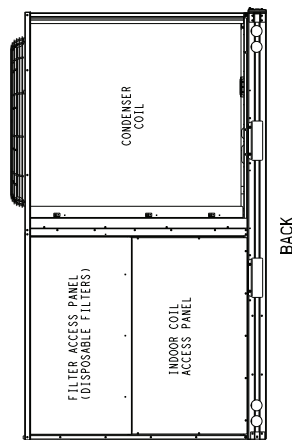
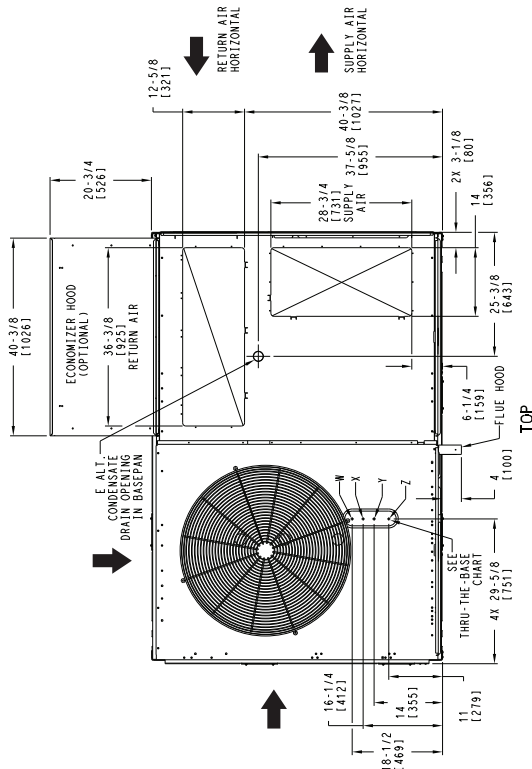
RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)

CONNECTION SIZES	
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2 1/2" [64] DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [51] DIA GAUGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4" [19] NPT CONDENSATE DRAIN
F	3/4" [19] NPT GAS CONNECTION
G	2" [51] DIA POWER SUPPLY KNOCK-OUT

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CHETM0002A01.004401			
W	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZE (MAX.)
X	1/2"	24V	7/8" [22.2]
Y	1 1/4" (002.004)	POWER	1 3/4" [44.4]
Z	(004) 3/4" FPT	GAS	1 5/8" [41.3]

FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED

(002) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING.



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	REV
U.S. ECCN: NSR	1 OF 3	06/01/21		48TM006A05

582K-14 SINGLE ZONE ELECTRICAL COOLING WITH GAS HEAT

Fig. 2 — 582K**14 Unit Dimensional Drawing

CERTIFIED DIMENSION PRINT

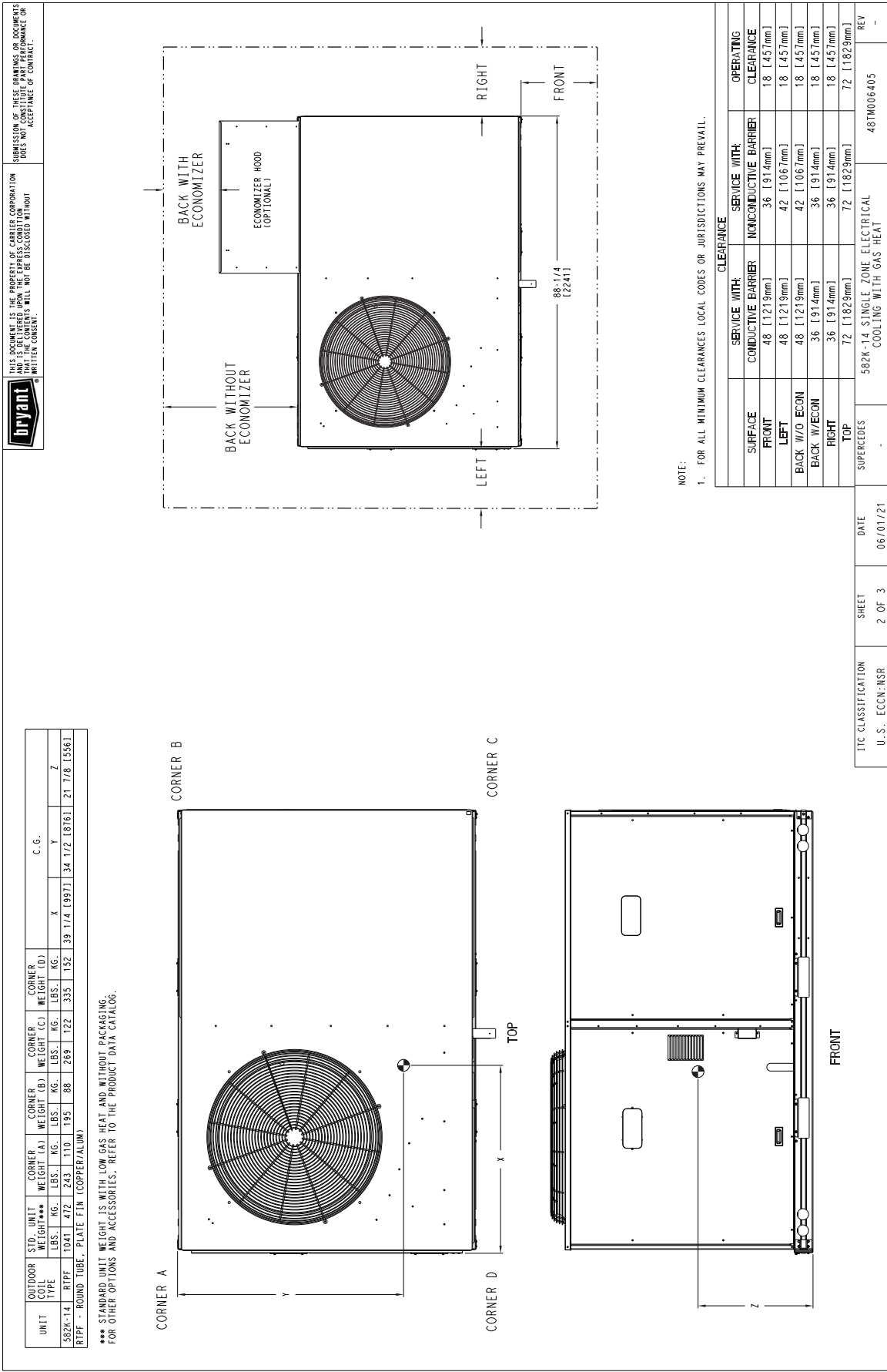


Fig. 2 — 582K** 14 Unit Dimensional Drawing (cont)

CERTIFIED DIMENSION PRINT

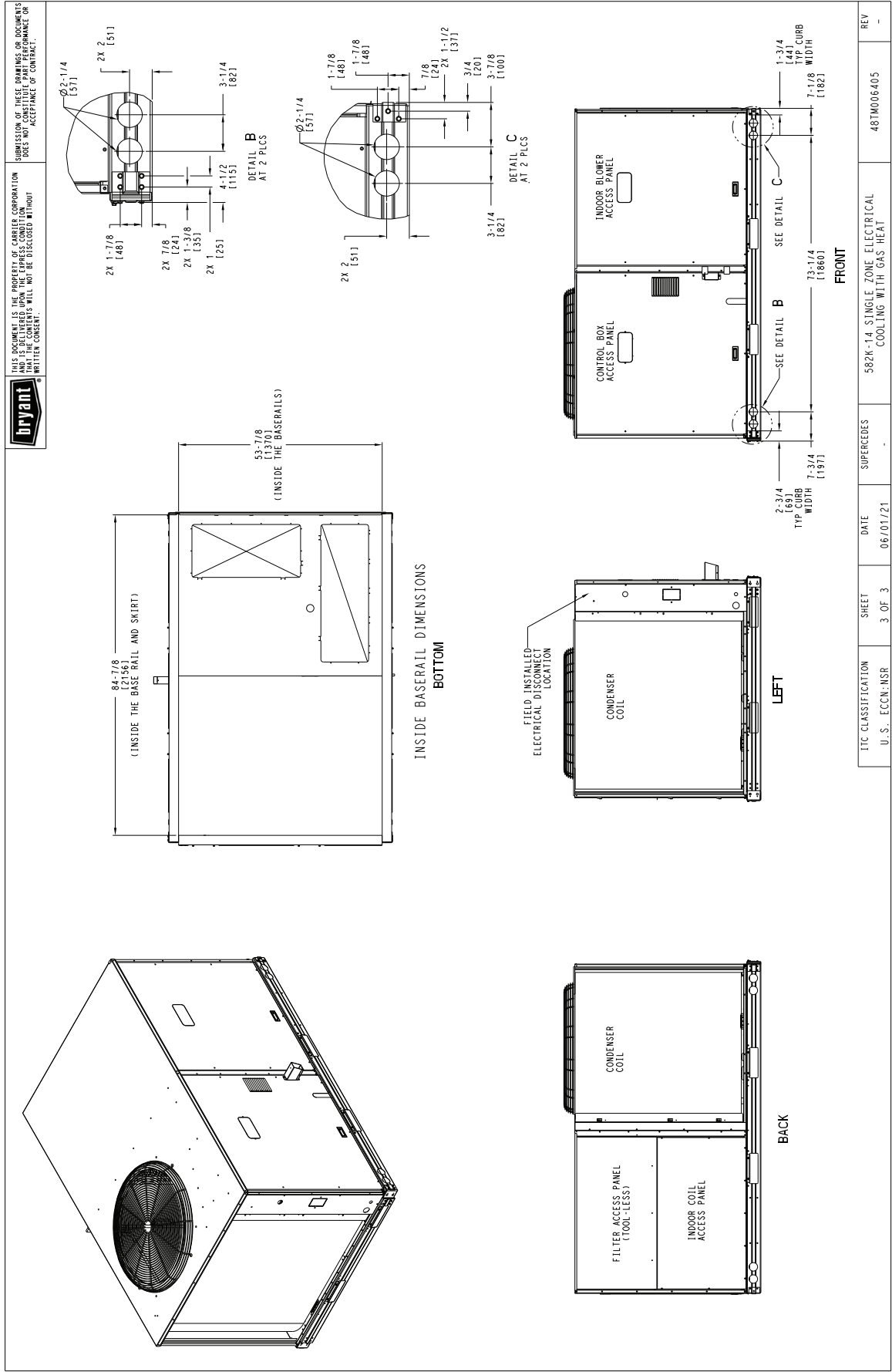


Fig. 2 — 582K** 14 Unit Dimensional Drawing (cont)

CERTIFIED DIMENSION PRINT

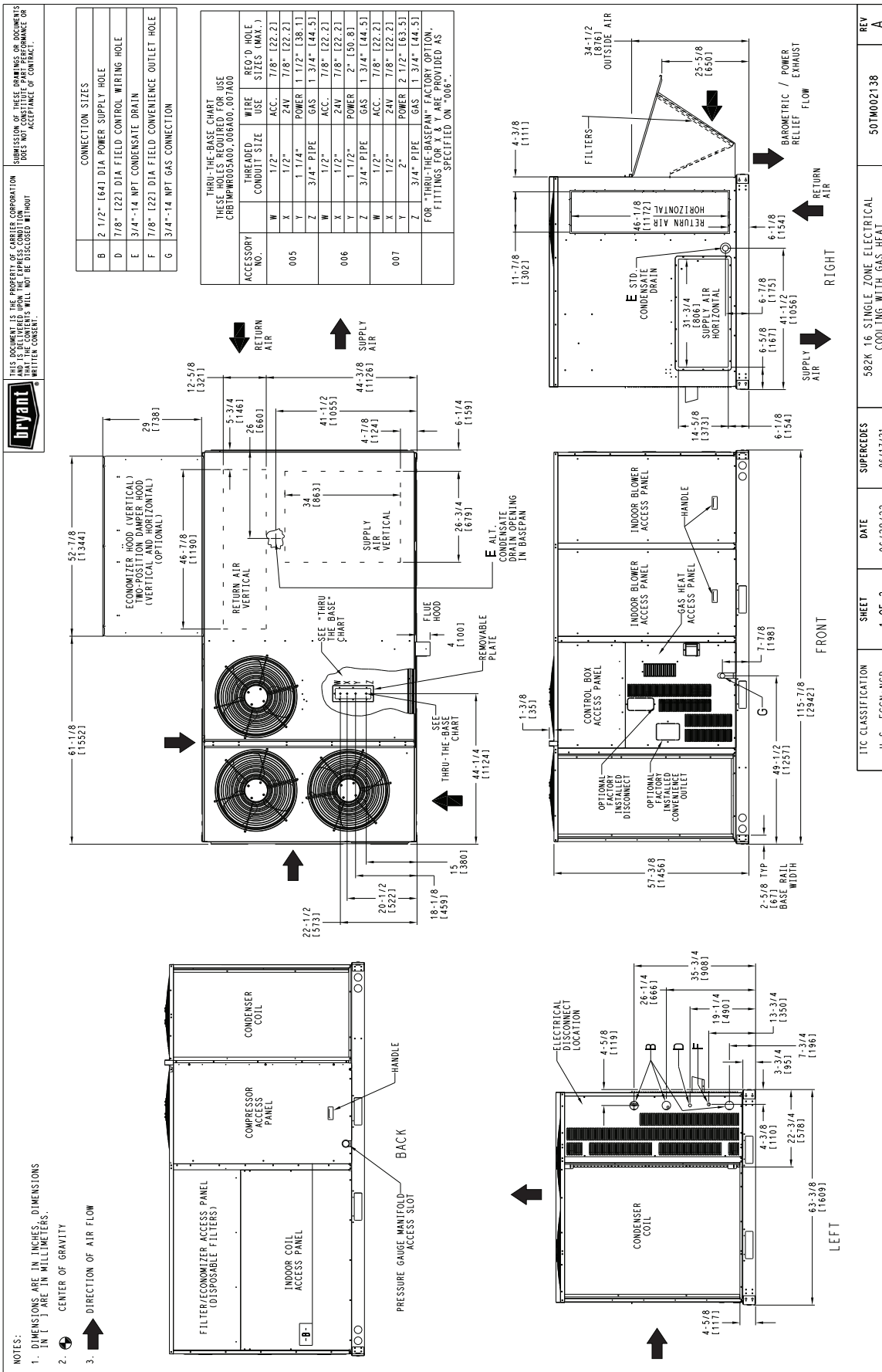


Fig. 3 — 582K*16 Unit Dimensional Drawing

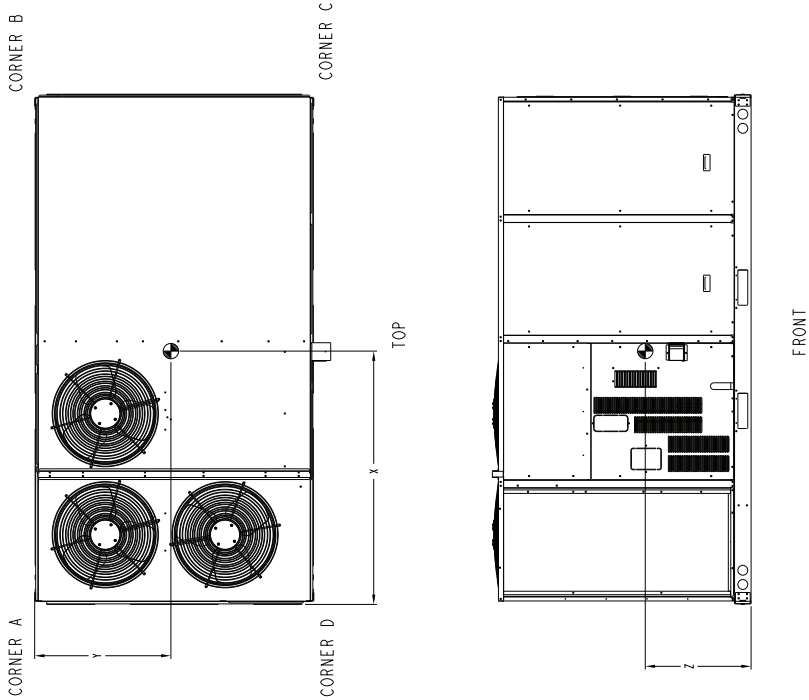
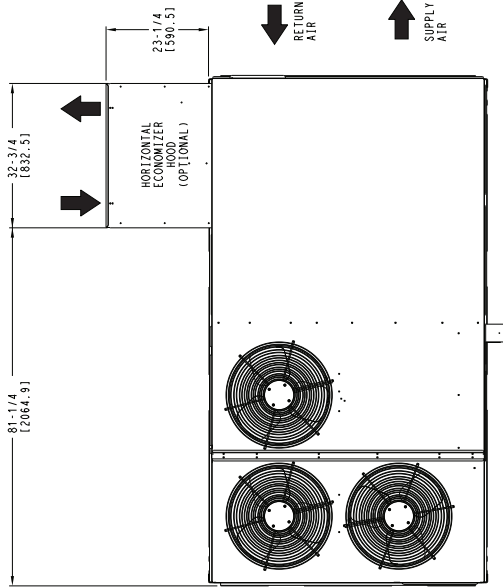
CERTIFIED DIMENSION PRINT

UNIT	STD UNIT		CORNER		CORNER		CORNER		CORNER		C.G.			
	WEIGHT	WEIGHT (A)	WEIGHT (B)	WEIGHT (C)	WEIGHT (D)	WEIGHT (E)	WEIGHT (F)	WEIGHT (G)	WEIGHT (H)	WEIGHT (I)	X	Y	Z	
582K-16	1408	639	373	169	341	155	332	150	362	164	55	3/8 [1407]	31 1/4 [794]	21 1/8 [537]

STANDARD UNIT WEIGHT IS WITH LOW HEAT & WITHOUT PACKAGING.
FOR OPTIONS & ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



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ACCEPTANCE OF CONTRACT.



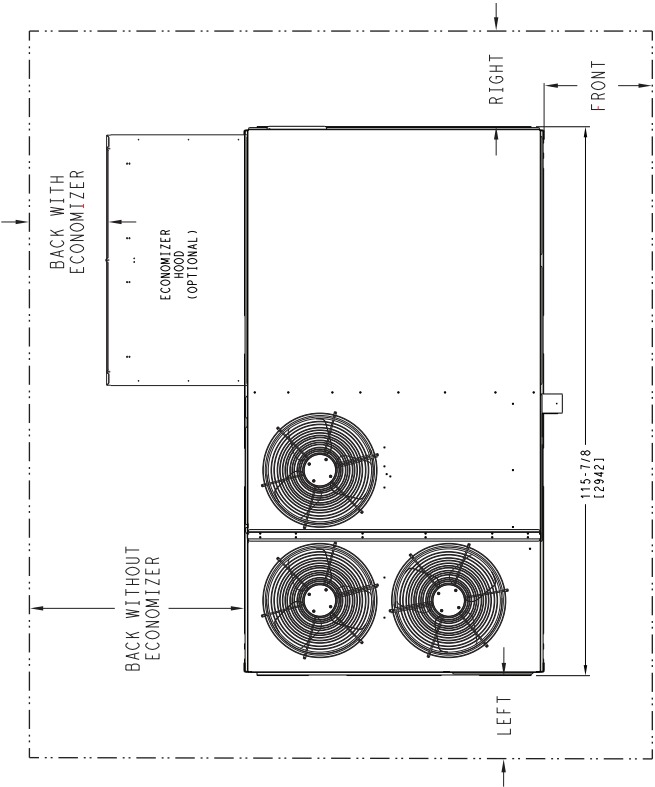
HORIZONTAL ECONOMIZER

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	REV
U.S. ECON-NSR	2 OF 2	06/28/22	06/17/21	A

582K 16 SINGLE ZONE ELECTRICAL
COOLING WITH GAS HEAT

Fig. 3 — 582K**16 Unit Dimensional Drawing (cont)

CERTIFIED DIMENSION PRINT



CLEARANCE				
SURFACE	Service with Conductive Barrier	Service with Non-conductive Barrier	Operating Clearance	
FRONT	48 in. (1219 mm)	36 in. (914 mm)	18 in. (457 mm)	
LEFT	48 in. (1219 mm)	42 in. (1067 mm)	18 in. (457 mm)	
BACK W/O ECONOMIZER	48 in. (1219 mm)	42 in. (1067 mm)	18 in. (457 mm)	
BACK W/ ECONOMIZER	36 in. (914 mm)	36 in. (914 mm)	18 in. (457 mm)	
RIGHT	36 in. (914 mm)	36 in. (914 mm)	18 in. (457 mm)	
LEFT	72 in. (1829 mm)	72 in. (1829 mm)	72 in. (1829 mm)	

NOTE: For all minimum clearances local codes or jurisdictions may prevail.

Fig. 4 — 582K*16 Base Unit Dimensions – Clearances

ROOF CURB ACCESSORY #	A	NOTES: 1. ROOF CURB ACCESSORY IS SHIPPED DISASSEMBLED. 2. INSULATED PANELS 2'x4' (1" THK. POLYURETHANE FOAM, 44.5 (1-3/4)" # DENSITY. 3. DIMENSIONS IN () ARE IN MILLIMETERS. 4. ROOF CURB: 18 GAGE STEEL. 5. DRAIN: 18 GAGE STEEL. 6. SERVICE CLEARANCE 4 FEET ON EACH SIDE. 7. DIRECTION OF AIR FLOW	CONNECTOR PKG. ACC.	GAS CONNECTION TYPE	GAS FITTING	POWER WIRING FITTING	CONTROL WIRING FITTING	ACCESSORY CONVENIENCE OUTLET WIRING CONNECTOR	
CRFCUR00030A01	14" [356]		CRBTMPWR0002A01	THRU THE CURB					
CRFCUR0004A01	24" [610]		CRBTMPWR0004A01	THRU THE BOTTOM		3/4" [19] NPT	1 1/4" [31.7] NPT	1/2" [12.7] NPT	1/2" [12.7] NPT

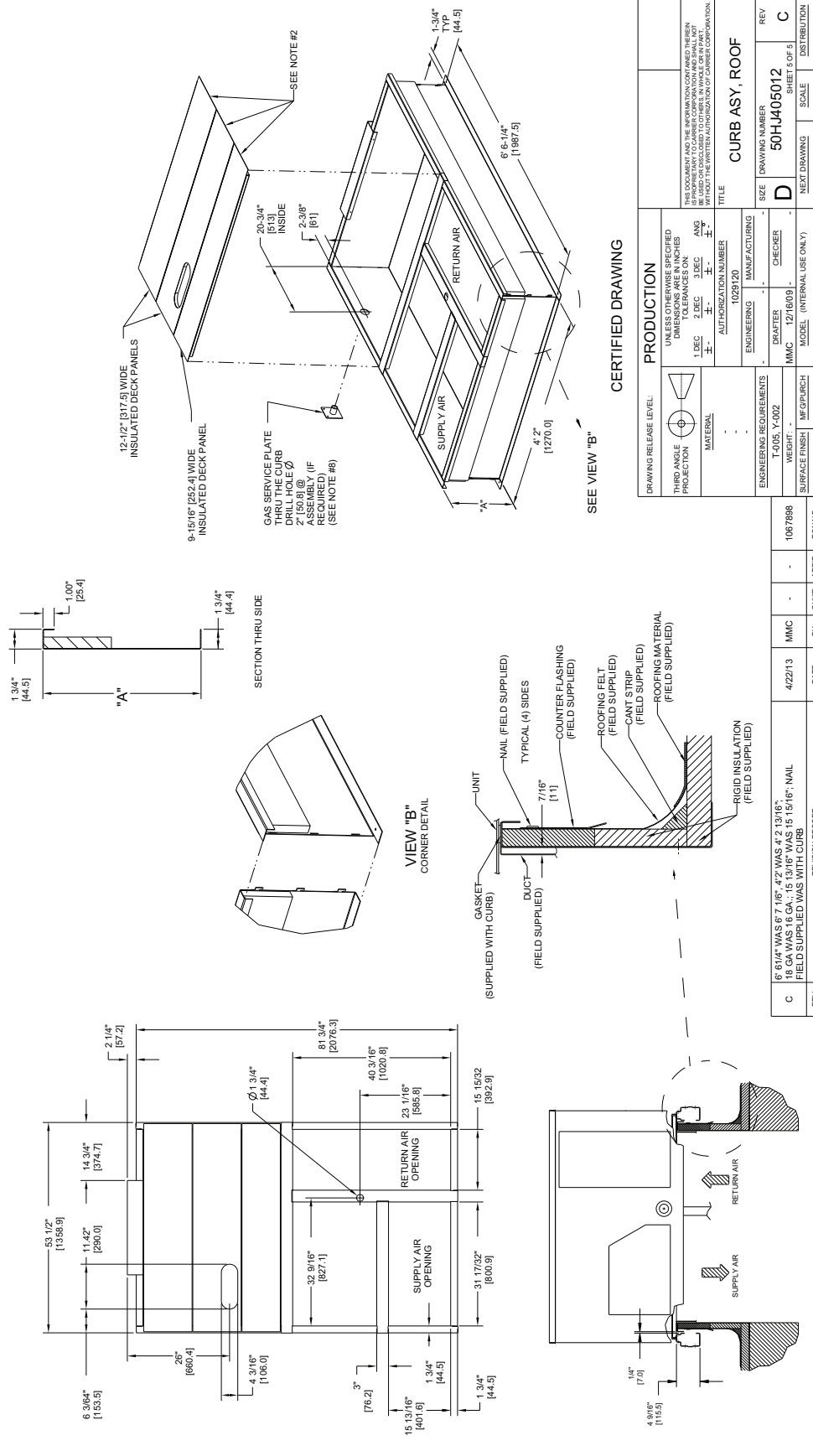


Fig. 5 — 582K08-14 Roof Curb Details**

